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	INFORMATION REPORT	CD NO.
COUNTRY	Austria/USSR	DATE DISTR. 15 AUG 49
SUBJECT	Building of Engine Testing Apparatus by Voith and Brown-Doveri (Ost)	NO. OF PAGES /
PLACE ACQUIRED		NO. OF ENCLS. (LISTED BELOW) 50X1-HUM
DATE OF IN		SUPPLEMENT TO REPORT NO.
OF ITS CONTENTS		EVALUATED INFORMATION
DIDITED BY LAW.	REPRODUCTION OF THE FOOR IN PROGRESSION.	
		50X1-HUM
1. In January 1948, USIA ordered a series of AC and DC-driven motors and dynamos from Brown-Foveri (Ost), and six high speed gearboxes, capable of 9/12,000 revolutions a minute, from J.M. Voith.		
2.	The target date for completion was 1 key, 1949; the project was given top priority in both Brown-Borori and Voith. Because of the inability of Bochler and Schoeller-Blockmann to deliver cast iron sheets for the stator and bearing plates, the time limit was extended to 1 July, 1949. Two sets of motors and dynamos and six gearboxes have now been completed.	
	Criginally, USIA stated that a machine would be flown from Moscov to the Brown-Boveri works in Vienna to be tested by this apparatus; the machine was referred to as a high-speed engine. The Russians have now requested that the apparatus be tested on its own; if proved successful, the tests on the unknown machine would then be carried out in Russia.	
li.	The method of operation of the testing apparatus is as follows:	
	a) An AEG asynchronous notor, worked off AC mains current, will drive the Brown Boveri dynamo GN 166a; this will produce DC current at varying strengths and will be controlled by an attached field exciter.	
	b) The DC current will drive a DC motor (GQ 186) turn controlled by another field exciter.	, the speed of which is in
	c) The GQ 186 motor will drive the gearbox at speeds between 9,000 and 12,000 r.p.m; this gearbox will be attached mechanically to the engine under test.	
	d) The AEG motor, dynamo GN 166a and field excit- the DC motor (GQ 186), second field exciter as	er are mounted on one baseplate, and gearbox on another.
	e) 1) The AEG is a 4-pole notor. 2) The dynamo GN 166a has the following spoc	ifications: 90 kw. 460 volts. 194 amps. 1460 rpm.
	3) The DC motor (GQ 186) has the following s	pecifications: 440 volts. 1/1 amps. 500 rpm.
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